User's Manual

MODEL NO.:PLDVCR600
PLDVCR500

PYLE® **view**

◆ In the initial settings, exclusive channel for DVD/Video is set to CH 3.
 Set the TV channel to CH3 before using it.

◆ Region code of DVD/Video player for home is 1 or ALL.
 In inserting a disc with other region code, it does not operate.
 Please only use a disc with region code 1 or ALL.

◆ 🖐 is a 'Prohibition' mark. If this mark is displayed in operating the product,
 please wait for a while, then use it. If 'Prohibition' mark🖐continues to be displayed
 in pressing a button after that, it means the button does not
 function in the currently played disc.

Important Safeguards

CAUTION	
RISK OF ELECTRIC SHOCK DO NOT OPEN	!

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and servicing instructions in the literature accompanying the appliance.

WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
CAUTION : TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

IMPORTANT FOR LASER PRODUCTS

LASER : This Digital Video Disc Player employs a Laser System. To ensure proper use of this product please read this owner's manual carefully and retain for future reference. Should the unit require maintenance, contact an authorized service location - see service procedure.
Use of control adjustments or the performance of procedures other than those specified may result in hazardous radiation exposure.
To prevent direct exposure to the laser beam, do not try to open the enclosure. Visible laser radiation when open and interlocks defeated.
DO NOT STARE INTO THE BEAM.

DANGER : Visible laser radiation when open and interlock failed or defeated.
Avoid direct exposure to beam.

CAUTION : Do not open the top cover. There are no user serviceable parts inside the Unit; leave all servicing to qualified service personnel.

FCC NOTICE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rule. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception; which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experience radio/TV technical for help.

CAUTION: Any changes or modification in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use and servicing. This unit is fully transistorized and does not contain any parts that can be repaired by the user.

1 READ INSTRUCTIONS
  All the safety and operating instructions should be read before the unit is operated.
2 RETAIN INSTRUCTIONS
  The safety and operating instructions should be retained for future reference.
3 HEED WARNINGS
  All warnings on the unit and in the operating instructions should be adhered to.
4 FOLLOW INSTRUCTIONS
  All operating and use instructions should be followed.
5 CLEANING
  Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6 ATTACHMENTS
  Do not use attachments unless recommended by the unit's manufacturer as they may cause hazards.
7 WATER AND MOISTURE
  Do not use this unit near water- for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool and the like. Caution : Maintain electrical safety. Powerline operated equipment or accessories connected to this unit should bear the UL listing mark or CSA certification mark on the accessory itself and should not be modified so as to defeat the safety features. This will help avoid any potential hazard from electrical shock or fire. If in doubt, contact qualified service personnel.
8 ACCESSORIES
  Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury to a child or adult as well as serious damage to the unit. Use this unit only with a cart, stand , tripod, bracket, or table recommended by the manufacturer.
8A
  A unit and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the unit and cart combination to overturn.

9 VENTILATION
  Slots and openings in the case are provided for ventilation to ensure reliable operation of the unit and to protect it from overheating. These openings must not be blocked or covered. These openings must not be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This unit should never be placed near or over a radiator or heat radiator. This unit should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
10 POWER SOURCES
  This unit should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company. For units intended to operate from battery power, or other sources, refer to the operating instructions.
  PORTABLE CART WARNING
  (symbol provided by RETAC)
11 GROUNDING OR POLARIZATION
  This unit is equipped with a polarized alternating -current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your obsolete outlet.To prevent electric shock, do not use this polarized plug with an extension cord, receptacle, or other outlet unless the blades can be fully inserted without blade exposure. If you need an extension cord, use a polarized cord.
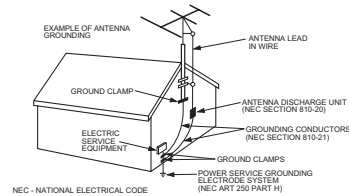
12 POWER-CORD PROTECTION
Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.
Note to CATV system installer
This reminder is provided to call the CATV system installer's attention to Section 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

13 Outdoor Antenna Grounding
If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984 (Section 54 of Canadian Electrical Code, Part 1) provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See example as shown.

EXAMPLE OF ANTENNA GROUNDING
ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
GROUNDING CONDUCTORS (NEC SECTION 810-21)
ELECTRIC SERVICE EQUIPMENT
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250 PART H)
NEC - NATIONAL ELECTRICAL CODE

14 Power Lines
An outside antenna system should not be located in the vicinity of overhead power lines, other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching or approaching such power lines or circuits as contact with them might be fatal. Installing an outdoor antenna can be hazardous and should be left to a professional antenna installer.

15 LIGHTNING
For added protection for this unit during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit due to lightning and power line surges.

16 DISC TRAY
Keep your fingers well clear of the disc as it is closing. It may cause serious personal injury.

17 OVERLOADING
Do not overload wall outlets of extension cords as this can result in a risk of fire or electric shock.

18 OBJECT AND LIQUID ENTRY
Never push objects of any kind into this unit through openings as they may touch dangerous voltage points or "short-out" parts that could result in a fire or electric shock. Never spill liquid of any kind on the unit.

19 BURDEN
Do not place a heavy object on or step on the product. The object may fall, causing serious personal injury and serious damage to the product.

20 DISC
Do not use a cracked, deformed or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.

21 SERVICING
Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

22 DAMAGE REQUIRING SERVICE
Unplug this unit from the wall outlet and refer servicing to qualified service personnel under the following conditions.
A. When the power-supply cord or plug is damaged.
B. If liquid has been spilled, or objects have fallen into the unit.
C. If the unit has been exposed to rain or water.
D. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
E. If the unit has been dropped or the cabinet has been damaged.
F. When the unit exhibits a distinct change in performance-this indicates a need for service.

23 REPLACEMENT PARTS
When replacement parts are required, have the service technician verify that the replacements he uses have the same safety characteristics as the original parts. Use of replacements specified by the unit manufacturer can prevent fire, electric shock, or other hazards.

24 SAFETY CHECK
Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks recommended by the manufacturer to determine that the unit is in safe operating condition.

25 WALL OR CEILING MOUNTING
The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

26 HEAT
The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Read Carefully before Using

Cautions in use of DVD-Video player are described below.
Please read carefully before using a DVD-Video player.

Installation place and handling
- When you place this player near other devices, they may affect poorly together.
- When you place DVD-Video player and TV in the upper and lower sides, it may cause flickering of pictures or failure (tape is not ejected).
- When you place this player near strong magnetic materials, it may affect image or voice poorly or damage recording.
- Do not spill volatile liquids like insect spray over the player. Do not leave rubber or plastic products in contact with the player for a long time. They will cause deterioration or paint peel-off.

Not in use
- When the unit is not in use, be sure to remove the disc or tape and turn off the power.
- If you do not use the unit for a long period, remove batteries in REMOTE to prevent leakage.
- In case you don't use the unit for a long time, the unit may not function properly in the future. Turn on and use the player occasionally.

Moving
- Repack the unit as it was originally packed at the factory. Alternatively, pack this product with towel not to be damaged.
- Eject any videotape.

Cleaning
- Dust off dirt in cabinet or control panel part smoothly with a soft cloth.
- For heavy dirt, soak the cloth in a weak detergent solution, wring it well and wipe. Use a dry cloth to wipe it out.
- Follow instructions in using chemical cleaners.
- Do not use any type of solvent such as gasoline or benzene, as they may cause deterioration or paint peel-off.

Checking
- Video is a high precision device. To obtain a clear screen, we recommend regular inspection and maintenance every 1,000 hours of use by technical engineers.
- For checking, contact your dealer or your nearest service center.

Checking and Replacement of Antenna
- Antenna is subject to change in its direction or damage by wind and rain. For clean screen, contact and consult your nearest service center about checking and replacement.
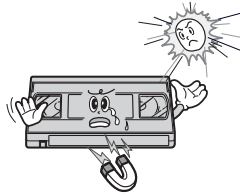
In recording important screen
- Be sure to record the screen and check whether recording is performed properly. We beg you to understand compensation of recording if recording is not performed by badness of used tape or video.

Copyright
- Do not use your recordings without permission of a copyrighter except personal usage.

Tape and Disc Handling

- Do not use any tape and disc below. Damage of video head or cut/coiling of tape may cause failure.
  - Tape with mold
  - Tape or disc stained with juice or attachments
  - Tape having breakage connection
  - Disassembled tape
  - Disc with severe scratch
  - Moisture condensation may occur in tape. Moisture condensation damages the tape. Please use the tape after the moisture condensation is disappeared.
- After use, store tape vertically in a case to prevent loose.
- Do not store the following places.
  - High temperature and humidity
  - Subject generation of mold
  - Subject to direct sunlight
  - Much dirt or dust
  - Near strong magnetic materials such as speaker

Contents

Advantages of This Product Are .....

BUILT-IN TV TUNER (TV/CATV)
Hi-Fi stereo system [VCR]
Digital Auto Tracking [VCR]
BACK LIGHTING OF FUNCTION BUTTONS
EXTERNAL IR REMOTE CONTROLLER WITH RECEIVER
DEW & HEAT SENSORS FOR TAPE PROTECTION
AUTO START FUNCTION
DC power Supply (2 kind of DC 12v inputs)
DVD, VCD, CD, CD-R(MP3), CD-RW, VHS playback function
Watching DVD for recording broadcast
Integrated REMOTE (VCR, DVD)
MP3 file playback function (CD-R disc having records of MP3 files)
Various video type-supported (NTSC and PAL)
GUI (Graphical User Interface) OSD (On Screen Display)
Screensaver function [DVD]
Slow Forward / reverse (DVD) playback
Fast Forward / reverse playback
Various TV aspect (DVD)
- 4:3 for Pan and Scan, 4:3 for Letter Box, and 16:9 for Wide
Repeat playback (title and chapter for DVD, track and disc for VCD/CD)
Selective Play (DVD/VCD/CD)
- You can select and play the desired title / chapter of DVD and track of Video CD/CD in STOP mode.
Screen zoom function (DVD/VCD)
Parental Lock function (DVD)
- This function can prevent playback of software that may be unsuitable for children.
Multi Angle function (DVD)
- This function allows you to choose the viewing angle of scenes which were shot from a number
  of different angles. (The number of angles depends on the software.)
Built-in Dolby Digital decoder (DVD)
Multi Subtitle function (DVD)
- The subtitle can be seen in up to 8 languages. In the case of SVCD or CVD, it depends on the disc. (The
  number of subtitle languages depends on the software.)
Multi Audio function (DVD)
- The audio soundtrack can be heard in up to 8 languages. In the case of SVCD or CVD,
 it depends on the disc.(The number of audio languages depends on the software.)
Composite video out

Front Panel
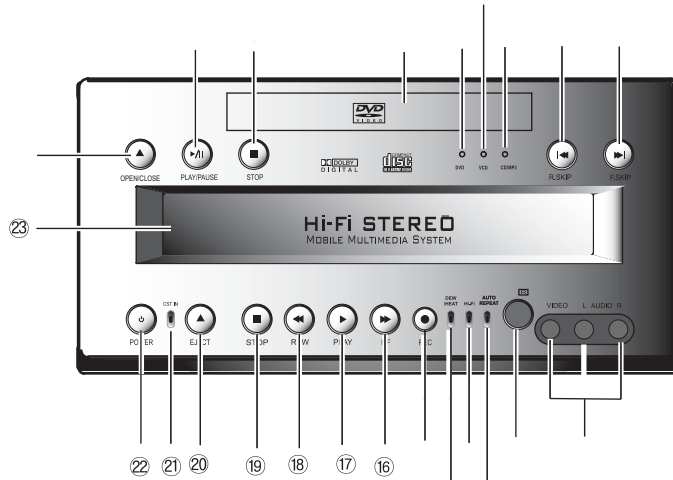
Open/Close button

If this key is pressed while power is supplying .
disc tray will open,the open/close button lamp will
light up in red then insert the disc and
the disc will be played automatically

Playback/Pause button(DVD)

Playback disc press this button to pause a screen
the pause lamp will blink in pause mode

Stop button(DVD)

Use to stop playing

Disc tray

DVD Disc lamp

VCD Disc lamp

CD/MP3 Disc lamp

Fast forward button
/ the former track select button

Press to select the former track or to
playback rapidly when the disc is to playback
rapidly, the fast forward button
will light up in red

Rewind button
/ the next track select button

Press to select the next track or to
playback back rapidly when the disc is to playback
back rapidly, the rewind button will light up in red

Audio/Video in jack

Connect these jack to the audio/video out jacks
terminal of your game machine or camcorder using
the RCA cord provided.

Remote control receiver.

Autorepeat lamp

During auto repeat operation,
auto repeat lamp will light up in red.

HI-FI Lamp

In the Hi-Fi out mode, the lamp will light up in red

DEW/HEAT lamp

When power is on, tis indicator flashes red to
indicate excessive moisture buildup inside the VCR.
The unit will not operate unit it dries out sufficiently
(the tape can be ejected from the unit)
When DEW mode has been activated,
leave the unit on the allow it to dry out completely.

REC key

Press the REc key for at least one second to
start recording.

⑯ Fast forward/Cue key

It this key is pressed in the Playback mode,
the VCRenters the forward picture search mode.
If pressed in stop mode,the the tape will fast
forward at hig speed. The FF indicator lamp will
up in red.

9

⑰ Play key.
   Press this key to playback a recorded tape,
   or to release special operation such as the search mode.
   In the playback mode the playback indicator lamp will
   be light in red, and Auto Tracking mode,
   this indicator lamp will blink.

⑱ Rewind / Review key.
   If this key is pressed in the PLAYBACK mode,
   the VCR enters the reverse picture search mode.
   If pressed in STOP mode,
   then the tape will rewind at high speed.
   The REW indicator lamp will up in red.

⑲ Stop key.
   Press this button to stop tape.

⑳ Eject Key.

   Press this button to eject tape.

㉑ Cassette-In Lamp.
   When the cassette is inserted,
   the CST-IN lamp will light up in green.

㉒ Power Key
   When power is supplied to the set,
   the power indicator lamp will always light up in red.
   The Power ON and Power OFF mode will be toggled
   by pressing this key.
   When the POWER is switched on,
   the power lamp will light up in red the other keys will
   light up in green.

㉓ Cassette Compartment

Rear Panel
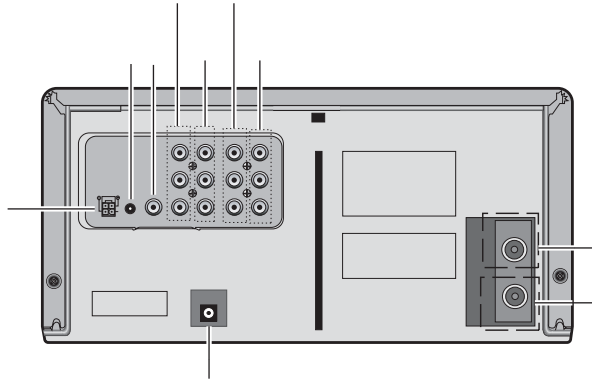
ANT IN Connector.
Connect the TV antenna
(or cable if available- home use) to this
connector.

RF OUT Connector.
This connectors provides an interface
to the antenna input connectors terminal of your
television using a coaxial cable.
Tuner the television to channel 3 or 4
to watch video tapes.

DC 12V IN JACK (Round type)
To use this connector, below Convert-Adapter
accessory should be locked into above connector 4.
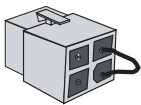
(Convert-Adapter)

* Please note :
We highly recommend to connect the unit
corresponding to the 3-wire system of 4.
Thus, to make sure a proper working
of power-off tape guide.
Beyond it, the unit will automatically change
to standby mode after turning off the vehicle in
order to save the car battery.

Caution : Make use of AC/DC Adaptor
(Ripple Voltage: Max 500mV)

DC JACK IN (DC 12V)
For car using, we recommend to use this connector
with 3-wire system.

* Connector description for 4

ACC 12V
GND ➤ ◄ VEHICLE BATTERY 12V

IR INPUT
Connect this terminal to remote control out.

DIGITAL OUT Connecter
To enjoy sound quality of theater lev el in home,
connect this jac k with amp or unit embedded with
digital audio decoder

AUDIO IN (AV1)
Connector this terminal to AUDIO OUT terminal of your
Game machine, Camcorder, using the RCA cord
For displaying this Rear A/V input connected, Input
Signal should be set to "AV1" in Menu setting mode.

S/W OUT Connector
Connect this terminal to VIDEO IN terminal of your TV
, using the RCA cord .

DVD OUT Connector.
Connect this terminal to VIDEO IN terminal of your TV
, using the RCA cord .

VIDEO OUT Connector.
Connect this terminal to VIDEO IN terminal of your TV
, using the RCA cord .
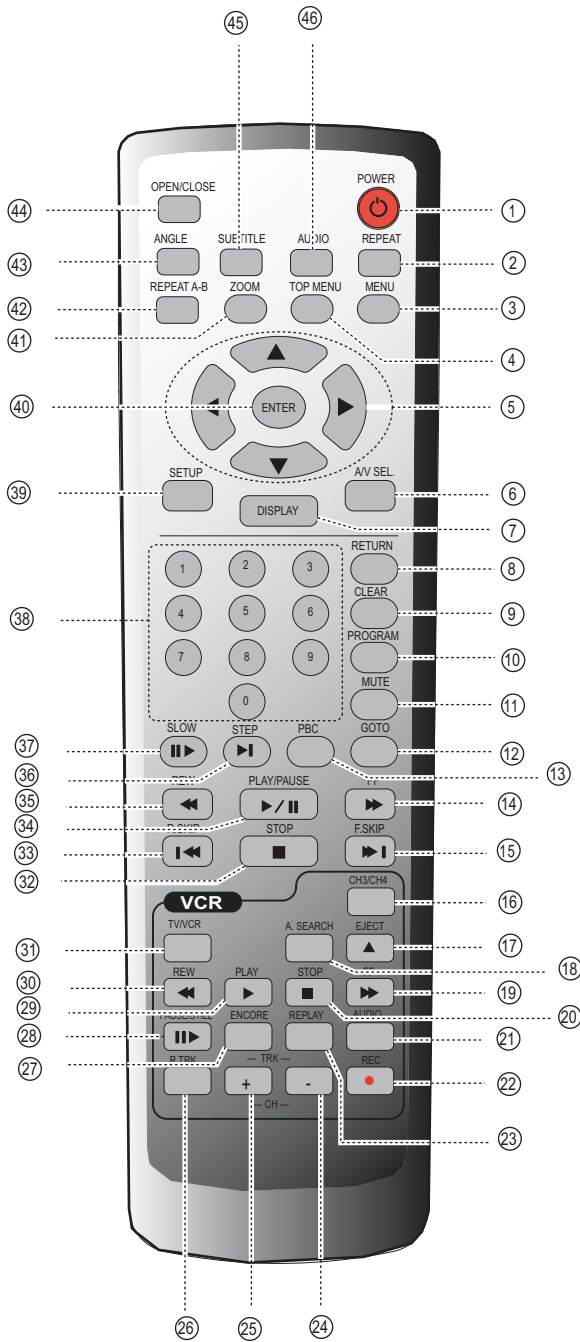
① DVD & VCR Power On/Off

② REPEAT Playback button [DVD]

③ MENU button

④ TITLE MENU button

⑤ MOVE in OSD button

⑥ A/V SEL button

⑦ OSD DISPLAY button

⑧ RETURN button

⑨ CLEAR button

⑩ PROGRAM button

⑪ MUTE button

⑫ GOTO button

⑬ PBC button

⑭ FF button

⑮ F.SKIP button

⑯ CH3/CH4 button [VCR]

⑰ EJECT button [VCR]

⑱ Auto Search button [VCR]

⑲ FF button [VCR]

⑳ STOP button [VCR]

㉑ AUDIO button [VCR]

㉒ REC button [VCR]

㉓ REPLAY button [VCR]

㉔ Tracking - (ManuallyaTracking in playback mode) /Channel - (in TV or CATV mode)button [VCR]

㉕ Tracking + (ManuallyaTracking in playback mode) /Channel + (in TV or CATV mode)button [VCR]

㉖ RE-Tracking button [VCR]

㉗ Encore button [VCR]

㉘ Pause/Still button [VCR]

㉙ Playback button [VCR]

㉚ Rewind button [VCR]

㉛ TV /VCR button [VCR]

㉜ STOP button [DVD]

㉝ R.SKIP button [DVD]

㉞ Play/Pause button [DVD]

㉟ Rewind button [DVD]

㊱ Step button [DVD]

㊲ Slow button [DVD]

㊳ Number button [DVD]

㊴ Setup button [DVD]

㊵ Enter button [DVD]

㊶ Zoom button [DVD]

㊷ Repeat A-B button [DVD]

㊸ Angle button [DVD]

㊹ Open/Close button [DVD]

㊺ Subtitle button [DVD]

㊻ Audio button [DVD]

● Instructions in Using REMOTE

Operate REMOTE within 7m
from the unit.

Do not press 2(two) buttons at
the same time.

Do not light up sending part of
REMOTE

Do not keep in the place with
much dust and humidity

7m

30°or less 30°or less
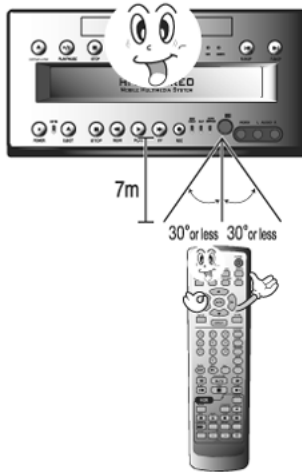
● Accessories
- • To purchase accessories or not supplied parts additionally, contact your nearest dealer or service center.
  But, owner•s manual and warranty are not sold additionally.

REMOTE

2 Batteries

Convert-Adapter

Owner's Manual/
Warranty
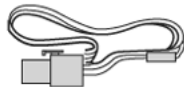
DC Power Cable

Warantty Cord

Connecting with TV

■ In the initial SET, exclusive channel for video is set to CH 3. To change this setting, set again in "CHANNEL SET" screen in VCR operation.

■ In connecting RF cable to TV, set TV channel to CH3.

● How to Connect with RF cable
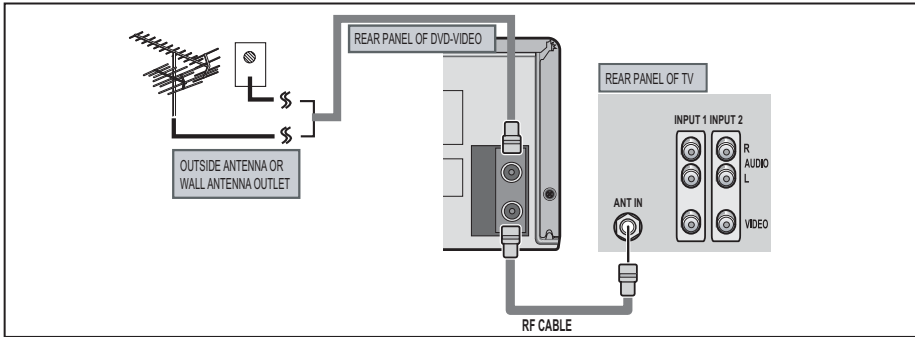
1. Remove circular cable (RF cable) (surplus cable) plugged in "ANT.IN" Jack in rear panel of TV. Connect the cable to "ANT.IN" jack in rear panel of DVD-Video.

2. Connect TV to DVD-Video. Connect "RF OUT" jack in DVD-Video with "ANT.IN" jack in TV with RF cable.
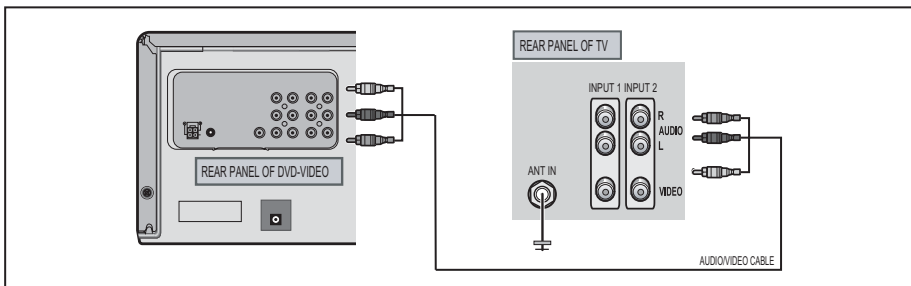
3. (If there is AUDIO/VIDEO INPUT jack in TV)
   Connect VIDEO OUT jack in DVD-Video to VIDEO IN jack in TV, and AUDIO OUT jack in DVD-Video to AUDIO IN jack in TV with connecting cable of Audio/Video jack.
   Select VCR mode by pressing TV/INPUT button in TV, you can view more clear screen and sound than connection with RF cable only.

CHECK UP!

VHF: 2 ~13 channels of TV

UHF: 14~69 channels of TV

CATV: Broadcasting is transmitted with cable from broadcasting station by contract with the station and consumers. It does not need any antenna.

In/Out jack in Audio/Video terminal:

- In: A jack used to receive signal required in this unit from other units.

- Out: A jack used to send signal of this unit to other units.

Connect with Audio/Video terminal, you can enjoy more clear video and audio.

(Use OUTPUT button in this REMOTE to select video mode.)

14

Connecting with Cable Box

■ You should install a distributor additionally

● How to connect
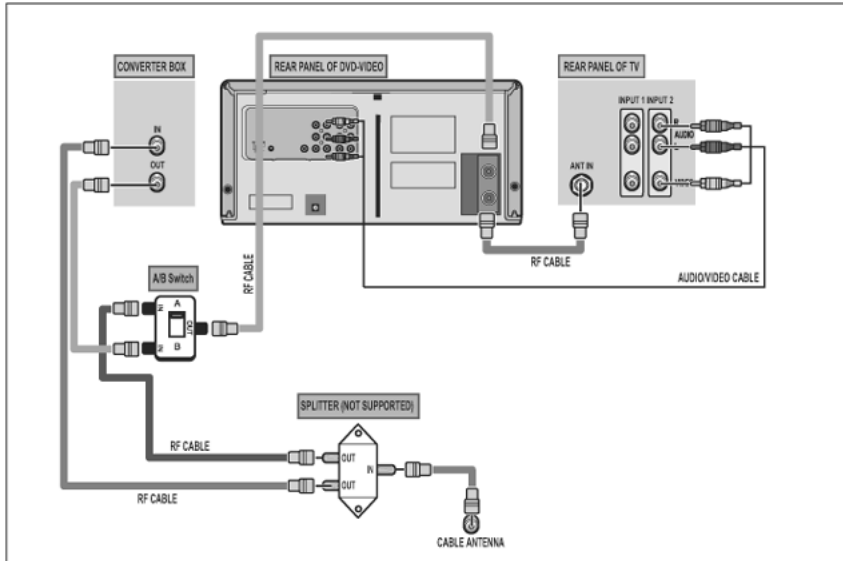
If your cable system only requires you to use a converter box for some channels
(i.e., pay-TV channels), follow these steps: Find the primary incoming RF cable.
Plug this cable into a splitter (available at your local electronics store.)
Connect one RF cable between one OUT terminal on the splitter and the IN terminal on the converter box.
Connect another RF cable between the other OUT terminal on the splitter and the A-IN terminal
on an A/B switch available at your local electronics store.)Connect a third RF cable between
the OUT terminal on the converter box and the B-IN terminal on the A/B switch.
Connect a RF cable between the OUTterminalon the A/B switch and the ANT. IN on your DVD-VIDEO.
When the A/B switch is in the B position,use the converter box to change channels ; when the A/B switch is
in the A position, use the DVD-VIDEO to change channels.

● How to watch general broadcasting with recording CATV

1. Set Channel Select switch of Converter Box to CH 3 or 4 as same as video
   exclusive channel. Press [SET] button in [VCR] operation to set video exclusive channel
   in "CHANNEL SET" screen.
2. Press channel button of Converter Box to select channel to be recorded. In this case,
   if you want to watch CATV to be recorded, press [TV/INPUT] button of TV to select "Out(VCR)".
3. Press [REC] button in DVD-Video.
4. To watch general broadcasting, press channel button in TV to select the desired channel.

CHECK UP!

For some types of TV, you should press [TV/INPUT] button in TV REMOTE and convert from Out 1
(VCR 1) or Out 2(VCR 2) mode to Broadcasting Channel mode to change TV channel.

Change channel selection of CATV receiver in recording, contents of recording is changed.

Connecting with Other VCR or Camcorder

⬤ How to Connect with Jack in Front Panel
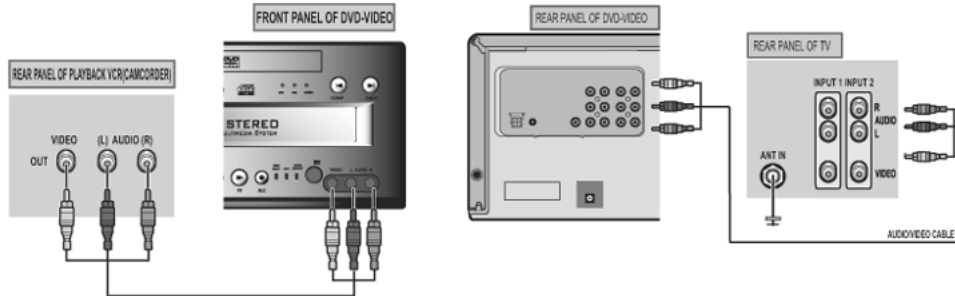
⬤ How to Connect with Jack in Rear Panel
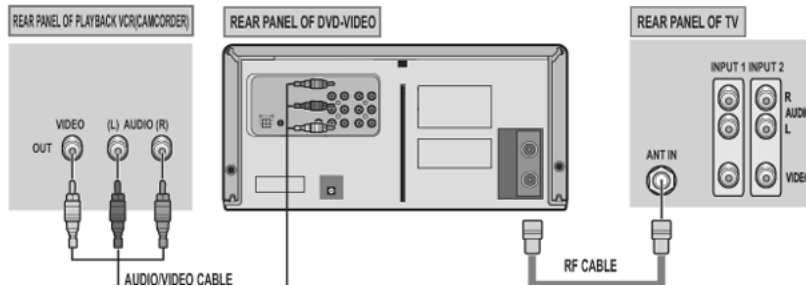
1. Connect AUDIO/VIDEO OUT jack in Camcorder(or playback video) to AUDIO/VIDEO IN jack in rear panel (or front panel) of DVD-Video with connecting cable.

2. Connect "ANT. IN" jack in TV to "RF.OUT" jack in DVD-Video with RF cable.

3. To record contents of camcorder or playback video with DVD-Video, insert recording tape attached recording tab in DVD-Video.

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⬤ How to Copy(Edit) Tape with Other VCR or Camcorder

1. Turn on DVD-Video.
2. Press [OUTPUT] button of remote control and adjust DVD-Video to display
   "External Input 1" or "External Input 2" in TV screen.
3. Press [PLAY] button in Camcorder or playback video.
4. Press [REC] button in DVD-Video if you want to record contents of camcorder or playback video.
5. Press [Pause] button in DVD-Video when unnecessary or undesired scene is displayed in recording.

   (Caution) Recording is released automatically after 5 minutes since pressing [PAUSE] button.
            Press [REC] button if you want to record again.

⬤ How to Playback Chapter Photographed by Camcorder

1. Turn DVD-Video on.
2. Press [OUTPUT] button of remote control and adjust DVD-Video to display "External Input 1"
   or "External Input 2" in TV screen.
3. Insert tape in camcorder and playback it.

LANGUAGE SETUP MENU

● Select DISC Menu Language

1. Press the "SETUP" button on the remote control.
   The initial MENU is displayd.

```
              SETUPM MENU
   🗔   |  LANGUAGE SETUP        |
   ▣   |  DISPLAY SETUP         |
   🔊   |  AUDIO SETUP           |
   🗐   |  PARENTAL SETUP        |
   📁   |  OTHERS SETUP          |
        |  VCR SETUP             |

   🎛  |  EXIT SETUP            |
 LANGUAGE SETUP
```

2. Press the select(ENTER) button
   then the LANGUAGE SETUP MENU is displayed.

```
           LANGUAGE SETUP MENU
   ⊙  | DISC MENU | ▶ | ENGLISH  |
   📢 | AUDIO     |   | FRANCAIS |
   T  | SUBTITLE  |   | DEUTSCH  |
                      | ESPANOL  |
                      | ITALIANO |

   ▲  |   MAIN MENU   |
 LANGUAGE SETUP
```

3. Press the SHIFT ▶ button
   to enter the selected menu.

```
           LANGUAGE SETUP MENU
   ⊙  | DISC MENU | ▶ | ENGLISH  |
   📢 | AUDIO     |   | FRANCAIS |
   T  | SUBTITLE  |   | DEUTSCH  |
                      | ESPANOL  |
                      | ITALIANO |

   ▲  |   MAIN MENU   |
 LANGUAGE SETUP
```

4. Press the SHIFT ▼ (or SHIFT ▲) button unit for the
   appropriate system is selected. and Press the
   ENTER button to activate the selected.
   (English → francais → deutsch → espanol → italiano)

```
           LANGUAGE SETUP MENU
   ⊙  | DISC MENU | ▶ | ENGLISH  |
   📢 | AUDIO     |   | FRANCAIS |
   T  | SUBTITLE  |   | DEUTSCH  |
                      | ESPANOL  |
                      | ITALIANO |

   ▲  |   MAIN MENU   |
 LANGUAGE SETUP
```
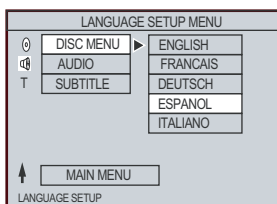
● Select AUDIO Language

1. Press the "SETUP" button on the remote control.
   The initial MENU is displayd.

```
              SETUPM MENU
   🗔   |  LANGUAGE SETUP        |
   ▣   |  DISPLAY SETUP         |
   🔊   |  AUDIO SETUP           |
   🗐   |  PARENTAL SETUP        |
   📁   |  OTHERS SETUP          |
        |  VCR SETUP             |

   🎛  |  EXIT SETUP            |
 LANGUAGE SETUP
```

2. Press the select(ENTER) button.
   then the LANGUAGE SETUP menu is displayed.

```
           LANGUAGE SETUP MENU
   ⊙  | DISC MENU | ▶ | ENGLISH  |
   📢 | AUDIO     |   | FRANCAIS |
   T  | SUBTITLE  |   | DEUTSCH  |
                      | ESPANOL  |
                      | ITALIANO |

   ▲  |   MAIN MENU   |
 LANGUAGE SETUP
```

3. Press the SHIFT▼ button to select(ENTER) the
   "AUDIO", then the AUDIO menu is displayed.
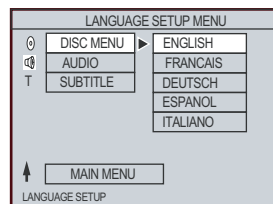
```
           LANGUAGE SETUP MENU
   ⊙  | DISC MENU |
   📢 | AUDIO     | ▶ | ENGLISH  |
   T  | SUBTITLE  |   | FRANCAIS |
                      | DEUTSCH  |
                      | ESPANOL  |
                      | ITALIANO |

   ▲  |   MAIN MENU   |
 LANGUAGE SETUP
```

4. Press the SHIFT ▶ button.

```
           LANGUAGE SETUP MENU
   ⊙  | DISC MENU | ▶ | ENGLISH  |
   📢 | AUDIO     |   | FRANCAIS |
   T  | SUBTITLE  |   | DEUTSCH  |
                      | ESPANOL  |
                      | ITALIANO |

   ▲  |   MAIN MENU   |
 LANGUAGE SETUP
```

5. Press the SHIFT▼ (or SHIFT ▲) button
   unit for the appropriate system is selected.
   and Press the ENTER button to activate the
   selected.
   (English → francais → deutsch → espanol
        → italiano)

● Select SUBTITLE Language

1. Press the "SETUP" button on the remote control.
   The initial MENU is displayd.

SETUPM MENU
LANGUAGE SETUP
DISPLAY SETUP
AUDIO SETUP
PARENTAL SETUP
OTHERS SETUP
VCR SETUP
EXIT SETUP

   LANGUAGE SETUP

2. Press the select(ENTER) button
   then the "LANGUAGE SETUP" is displayed.

   LANGUAGE SETUP MENU

   DISC MENU ▶ ENGLISH
   AUDIO   FRANCAIS
   SUBTITLE   DEUTSCH
               ESPANOL
               ITALIANO

   MAIN MENU
   LANGUAGE SETUP

3. Press the SHIFT   button to select (ENTER)
   the "SUBTITLE".
   Then the SUBTITLE menu is displayed.

   LANGUAGE SETUP MENU

   DISC MENU
   AUDIO
   SUBTITLE ▶ ENGLISH
              FRANCAIS
              DEUTSCH
              ESPANOL
              ITALIANO
   MAIN MENU OFF
   LANGUAGE SETUP

4. Press the SHIFT   button
   to enter the selected menu.

5. Press the SHIFT   (or SHIFT   ) button unit for the
   appropriate system is selected.
   and Press the ENTER button to activate the selected menu.
   (English   francais   deutsch   espanol   italiano   OFF)

   LANGUAGE SETUP MENU

   DISC MENU
   AUDIO
   SUBTITLE ▶ ENGLISH
              FRANCAIS
              DEUTSCH
              ESPANOL
              ITALIANO
   MAIN MENU OFF
   LANGUAGE SETUP
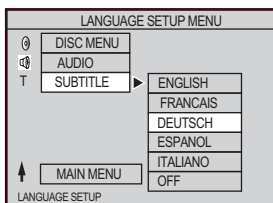
DISPLAY SETUP MENU

● Set TV DISPLAY Mode

1. Press the "SETUP" button on the remote control.
   The initial MENU is displayd.

```
┌─────────────────────────────────┐
│          SETUPM MENU            │
│ □      LANGUAGE SETUP           │
│ □      DISPLAY SETUP            │
│ ◁      AUDIO SETUP              │
│ ▨      PARENTAL SETUP           │
│ ▭      OTHERS SETUP             │
│        VCR SETUP               │
│ ▯      EXIT SETUP              │
│ LANGUAGE SETUP                  │
└─────────────────────────────────┘
```

2. Press the SHIFT   button to select (ENTER)
   the "DISPLAY SETUP".
   Then the DISPLAY SETUP menu is displayed.

```
┌─────────────────────────────────┐
│          SETUPM MENU            │
│ □      LANGUAGE SETUP           │
│ □      DISPLAY SETUP            │
│ ◁      AUDIO SETUP              │
│ ▨      PARENTAL SETUP           │
│ ▭      OTHERS SETUP             │
│        VCR SETUP               │
│ ▯      EXIT SETUP              │
│ GOTO DISPLAY SETUP MENU         │
└─────────────────────────────────┘
```

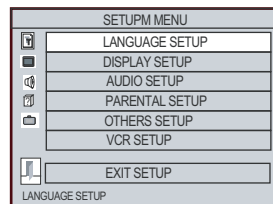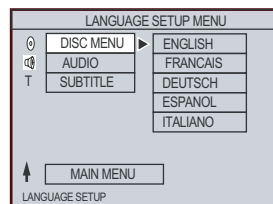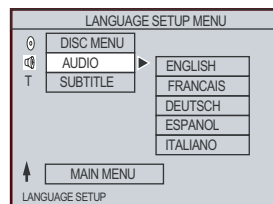3. Press the SHIFT   button to enter
   the selected menu.

4. Press the SHIFT   (or SHIFT   ) button unit for the
   appropriate system is selected. and Press the
   ENTER button to activate the selected menu.
   (4:3 LETTER BOX   4:3 PAN-SCAN   16:9 WIDE)

```
┌─────────────────────────────────┐
│        DISPLAY SETUP MENU        │
│ □   TV DISPLAY ▶ 4:3 LETTER BOX │
│ □   TV TYPE      4:3 PAN-SCAN   │
│ □   PIC MODE     16:9 WIDE      │
│                                 │
│ ▲   MAIN MENU                   │
│ SELECT 4:3 NORMAL TV L-BOX      │
└─────────────────────────────────┘
```
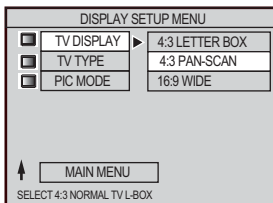
● Set TV TYPE

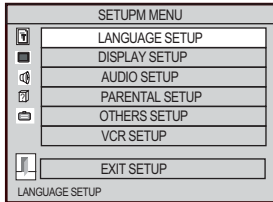1. Press the "SETUP" button on the remote control.
   The initial MENU is displayd.

```
┌─────────────────────────────────┐
│          SETUPM MENU            │
│ □      LANGUAGE SETUP           │
│ □      DISPLAY SETUP            │
│ ◁      AUDIO SETUP              │
│ ▨      PARENTAL SETUP           │
│ ▭      OTHERS SETUP             │
│        VCR SETUP               │
│ ▯      EXIT SETUP              │
│ LANGUAGE SETUP                  │
└─────────────────────────────────┘
```

2. Press the SHIFT   button to select (ENTER)
   the "DISPLAY SETUP".
   Then the DISPLAY SETUP menu is displayed.

```
┌─────────────────────────────────┐
│          SETUPM MENU            │
│ □      LANGUAGE SETUP           │
│ □      DISPLAY SETUP            │
│ ◁      AUDIO SETUP              │
│ ▨      PARENTAL SETUP           │
│ ▭      OTHERS SETUP             │
│        VCR SETUP               │
│ ▯      EXIT SETUP              │
│ GOTO DISPLAY SETUP MENU         │
└─────────────────────────────────┘
```

3. Press the SHIFT   button to select (ENTER)
   the "TV TYPE".
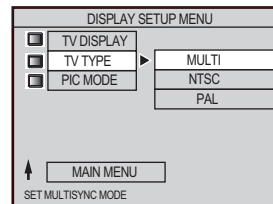
```
┌─────────────────────────────────┐
│        DISPLAY SETUP MENU        │
│ □   TV DISPLAY                  │
│ □   TV TYPE    ▶   MULTI        │
│ □   PIC MODE       NTSC         │
│                    PAL          │
│                                 │
│ ▲   MAIN MENU                   │
│ SET MULTISYNC MODE              │
└─────────────────────────────────┘
```

4. Press the SHIFT   button to enter
   the selected menu.

5. Press the SHIFT   (or SHIFT   ) button unit for the
   appropriate system is selected. and Press the
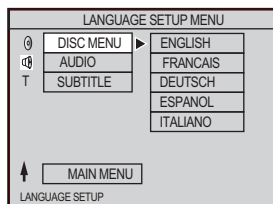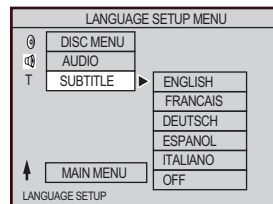   ENTER button to activate the selected menu
   (MULTI   NTSC   PAL)

```
┌─────────────────────────────────┐
│        DISPLAY SETUP MENU        │
│ □   TV DISPLAY                  │
│ □   TV TYPE    ▶   MULTI        │
│ □   PIC MODE       NTSC         │
│                    PAL          │
│                                 │
│ ▲   MAIN MENU                   │
│ SELECT NTSC TV                  │
└─────────────────────────────────┘
```
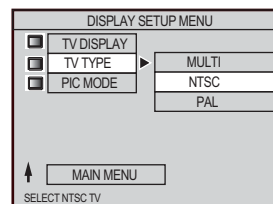
● Set Picture Mode

1. Press the "SETUP" button on the remote control.
   The initial MENU is displayd.

```
            SETUPM MENU
 ▯   ┌─────────────────────────┐
     │     LANGUAGE SETUP      │
 ▯   │      DISPLAY SETUP      │
 ◁   │       AUDIO SETUP       │
 ▯   │     PARENTAL SETUP      │
 ▱   │      OTHERS SETUP       │
     │        VCR SETUP        │
     └─────────────────────────┘
 ▯   ┌─────────────────────────┐
     │       EXIT SETUP        │
     └─────────────────────────┘
LANGUAGE SETUP
```
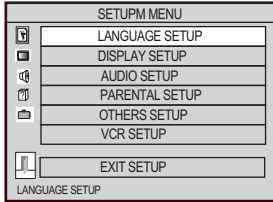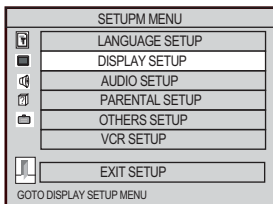
2. Press the SHIFT   button to select (ENTER)
   the "DISPLAY SETUP".
   Then the DISPLAY SETUP menu is displayed.

```
            SETUPM MENU
 ▯   ┌─────────────────────────┐
     │     LANGUAGE SETUP      │
 ▯   │      DISPLAY SETUP      │
 ◁   │       AUDIO SETUP       │
 ▯   │     PARENTAL SETUP      │
 ▱   │      OTHERS SETUP       │
     │        VCR SETUP        │
     └─────────────────────────┘
 ▯   ┌─────────────────────────┐
     │       EXIT SETUP        │
     └─────────────────────────┘
GOTO DISPLAY SETUP MENU
```

3. Press the SHIFT   button to select (ENTER)
   the "PIC MODE".

```
         DISPLAY SETUP MENU
 ▯  ┌──────────────┐
    │  TV DISPLAY  │
 ▯  │   TV TYPE    │
 ▯  │   PIC MODE   │ ▶ ┌───────────┐
    └──────────────┘   │   AUTO    │
                       │  HI-RES   │
                       │ N-FLICKER │
                       └───────────┘
 ▲  ┌──────────────┐
    │  MAIN MENU   │
    └──────────────┘
SET PICTURE MODE
```

4. Press the SHIFT   button
   to enter the selected menu.

5. Press the SHIFT   (or SHIFT   ) button unit for the
   appropriate system is selected. and Press the
   ENTER button to activate the selected menu.
   (AUTO   HI-RES   N-FLICKER)

```
         DISPLAY SETUP MENU
 ▯  ┌──────────────┐
    │  TV DISPLAY  │
 ▯  │   TV TYPE    │
 ▯  │   PIC MODE   │ ▶ ┌───────────┐
    └──────────────┘   │   AUTO    │
                       │  HI-RES   │
                       │ N-FLICKER │
                       └───────────┘
 ▲  ┌──────────────┐
    │  MAIN MENU   │
    └──────────────┘
SELECT HIGH-RESOLUTION MODE
```
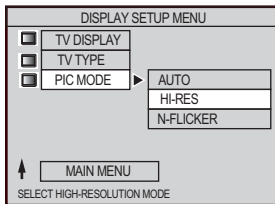
AUDIO SETUP MENU

● DIGITAL OUT Setup
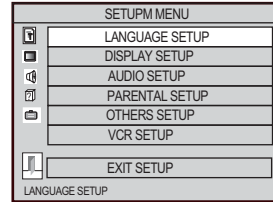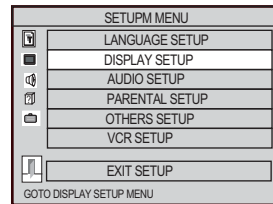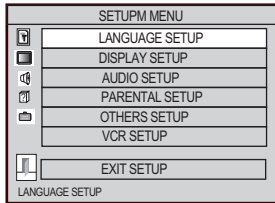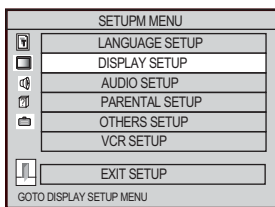
1. Press the "SETUP" button on the remote control.
   The initial MENU is displayd.

```
                SETUPM MENU
   🔲    LANGUAGE SETUP
   ⬜    DISPLAY SETUP
   📢    AUDIO SETUP
   📶    PARENTAL SETUP
   📁    OTHERS SETUP
          VCR SETUP

   🔳    EXIT SETUP
   LANGUAGE SETUP
```

2. Press the SHIFT   button to select (ENTER)
   the "AUDIO SETUP".
   Then the AUDIO SETUP menu is displayed.

```
                SETUPM MENU
   🔲    LANGUAGE SETUP
   ⬜    DISPLAY SETUP
   📢    AUDIO SETUP
   📶    PARENTAL SETUP
   📁    OTHERS SETUP
          VCR SETUP

   🔳    EXIT SETUP
   GOTO DISPLAY SETUP MENU
```

3. Press the SHIFT   button to enter the selected
   menu.

4. Press the SHIFT   (or SHIFT   ) button unit for the
   appropriate system is selected.
   and Press the ENTER button to activate the
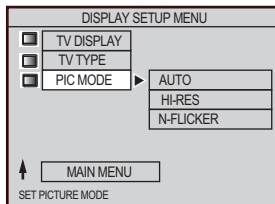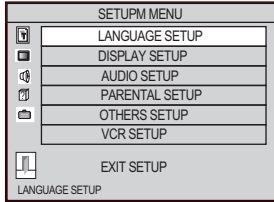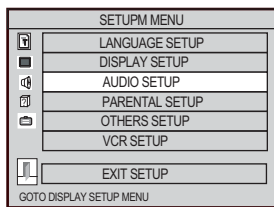   selected menu.
   (DISABLE   BITSTREAM   PCM)

```
                AUDIO SET MENU
   📢   DIGITAL OUT    ▶    DISABLE
   📶   AC3 DUAL MONO       BITSTREAM
   📶   AC3 DYNAMIC         PCM




   ⬆      MAIN MENU
   SELECT DIGITAL OUT DISABLE
```
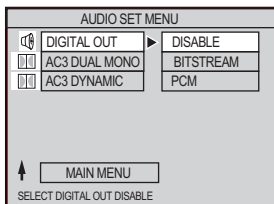
● DUAL MONO (1+1) Setup

1. Press the "SETUP" button on the remote control.
   The initial MENU is displayd.

```
                SETUPM MENU
   🔲    LANGUAGE SETUP
   ⬜    DISPLAY SETUP
   📢    AUDIO SETUP
   📶    PARENTAL SETUP
   📁    OTHERS SETUP
          VCR SETUP

   🔳    EXIT SETUP
   LANGUAGE SETUP
```

2. Press the SHIFT   button to select (ENTER)
   the "AUDIO SETUP".
   Then the AUDIO SETUP menu is displayed.

```
                SETUPM MENU
   🔲    LANGUAGE SETUP
   ⬜    DISPLAY SETUP
   📢    AUDIO SETUP
   📶    PARENTAL SETUP
   📁    OTHERS SETUP
          VCR SETUP

   🔳    EXIT SETUP
   GOTO DISPLAY SETUP MENU
```

3. Press the SHIFT   button to select (ENTER)
   the "AC3 DUAL MONO".

```
                AUDIO SET MENU
   📢   DIGITAL OUT
   📶   AC3 DUAL MONO ▶    STEREO
   📶   AC3 DYNAMIC         L-MONO
                            R-MONO
                            MIX-MONO


   ⬆      MAIN MENU
   DUAL MONO (1+1) SETUP
```
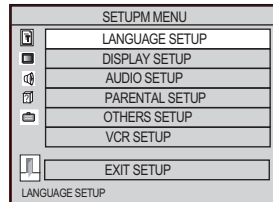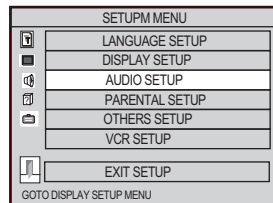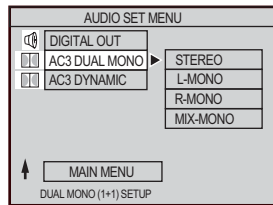
4. Press the SHIFT   button to enter the
   selected menu.

5. Press the SHIFT   (or SHIFT   ) button unit for the
   appropriate system is selected. and Press the
   ENTER button to activate the selected menu.
   (STEREO   L-MONO   R-MONO   MIX-MONO)

```
                AUDIO SET MENU
   📢   DIGITAL OUT
   📶   AC3 DUAL MONO ▶    STEREO
   📶   AC3 DYNAMIC         L-MONO
                            R-MONO
                            MIX-MONO


   ⬆      MAIN MENU
   SELECT STEREO MODE
```

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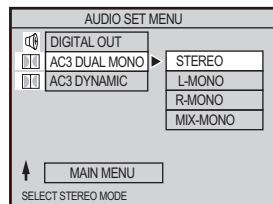
● Setup DYNAMIC Range Compression

1. Press the "SETUP" button on the remote control.
   The initial MENU is displayd.

```
                SETUPM MENU
   [ ]   LANGUAGE SETUP
   [ ]   DISPLAY SETUP
   [ ]   AUDIO SETUP
   [ ]   PARENTAL SETUP
   [ ]   OTHERS SETUP
         VCR SETUP

   [ ]   EXIT SETUP
   LANGUAGE SETUP
```

2. Press the SHIFT   button to select (ENTER)
   the "AUDIO SETUP".
   Then the AUDIO SETUP menu is displayed.

```
                SETUPM MENU
   [ ]   LANGUAGE SETUP
   [ ]   DISPLAY SETUP
   [ ]   AUDIO SETUP
   [ ]   PARENTAL SETUP
   [ ]   OTHERS SETUP
         VCR SETUP

   [ ]   EXIT SETUP
   GOTO DISPLAY SETUP MENU
```

3. Press the SHIFT   button to select (ENTER)
   the "AC3 DYNAMIC".

```
                AUDIO SET MENU
   [ ]   DIGITAL OUT      –   –  FLL
   [ ]   AC3 DUAL MONO    –   –
   [ ]   AC3 DYNAMIC  ►   –   –  6/8
                         –   –  4/8
                         –   –
                         –   –  2/8
                         –   –
   ▲    MAIN MENU        –   –  OFF
   DYNAMIC RENGE COMPRESSION
```
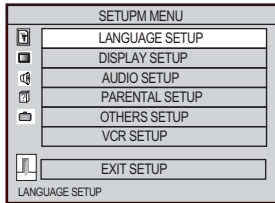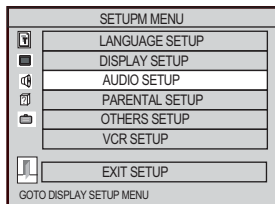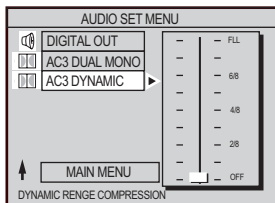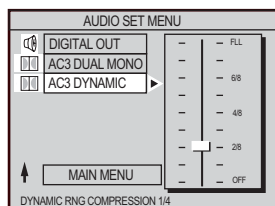
4. Press the SHIFT   button to enter the
   selected menu

5. Press the SHIFT   (or SHIFT   ) button unit for the
   appropriate system is selected. and Press the
   ENTER button to activate the selected menu.

```
                AUDIO SET MENU
   [ ]   DIGITAL OUT      –   –  FLL
   [ ]   AC3 DUAL MONO    –   –
   [ ]   AC3 DYNAMIC  ►   –   –  6/8
                         –   –  4/8
                         –   –
                         –   –  2/8
                         –   –
   ▲    MAIN MENU        –   –  OFF
   DYNAMIC RNG COMPRESSION 1/4
```

23

PARENTAL LOCK SETUP MENU

● Setup Parental Lock

1. Press the "SETUP" button on the remote control.
   The initial MENU is displayd.

```
┌─────────────────────────────────┐
│         SETUPM MENU             │
├─────────────────────────────────┤
│ 🗔    LANGUAGE SETUP            │
│ ▣    DISPLAY SETUP             │
│ 🔊    AUDIO SETUP              │
│ 🗐    PARENTAL SETUP           │
│ 📂    OTHERS SETUP             │
│      VCR SETUP                 │
│ ▯Ⅱ   EXIT SETUP               │
│ LANGUAGE SETUP                  │
└─────────────────────────────────┘
```

2. Press the SHIFT ▶ button to select (ENTER)
   the "PARENTAL LOCK".
   Then the PARENTAL LOCK menu is displayed.

```
┌─────────────────────────────────┐
│         SETUPM MENU             │
├─────────────────────────────────┤
│ 🗔    LANGUAGE SETUP            │
│ ▣    DISPLAY SETUP             │
│ 🔊    AUDIO SETUP              │
│ 🗐    PARENTAL SETUP           │
│ 📂    OTHERS SETUP             │
│      VCR SETUP                 │
│ ▯Ⅱ   EXIT SETUP               │
│ GOTO DISPLAY LOCK MENU          │
└─────────────────────────────────┘
```
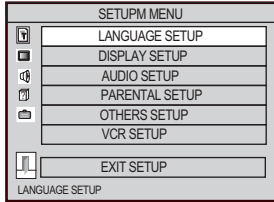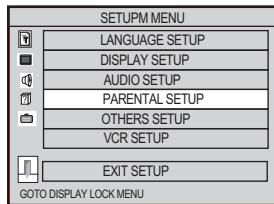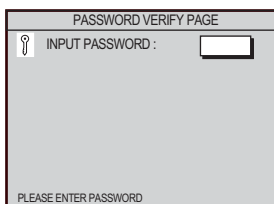
3. Press the SHIFT ▶ button to enter
   the selected menu

4. Press the SHIFT ▲ (or SHIFT ▼) button unit for the
   appropriate system is selected.
   (KID SAFE ▶ G ▶ PG ▶ PG 13 ▶ PG -R
   ▶ R ▶ NC-17 ▶ ADULT)
   Then the PARENTAL VERIFY PAGE menu is displayed.

```
┌─────────────────────────────────┐
│       PARENTAL LOCK MENU        │
├─────────────────────────────────┤
│ 🗐 PARENTAL    ▶ 1 KID SAFE     │
│ 🔑 PASSWORD       2 G           │
│                   3 PG          │
│                   4 PG 13       │
│                   5 PG-R        │
│                   6 R           │
│ ▲                 7 NC-17       │
│    MAIN MENU      8 ADULT       │
│ SET TO KIDS SAFE        ▼       │
└─────────────────────────────────┘
```
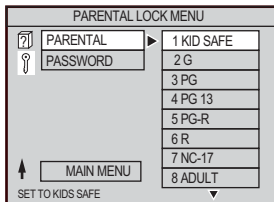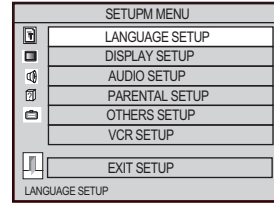
5. If selecting "PARENTAL" by moving, a password
   display appears.
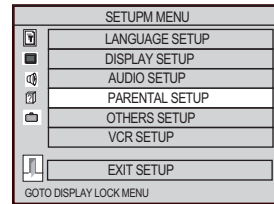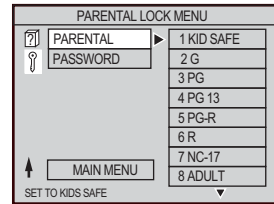   Then entering a user's password, a user canresettle
   a user's PARENTAL.

```
┌─────────────────────────────────┐
│     PASSWORD VERIFY PAGE        │
├─────────────────────────────────┤
│ 🔑 INPUT PASSWORD : [        ]  │
│                                 │
│                                 │
│                                 │
│                                 │
│ PLEASE ENTER PASSWORD           │
└─────────────────────────────────┘
```

● Change the Password

1. Press the "SETUP" button on the remote control.
   The initial MENU is displayd.

```
┌─────────────────────────────────┐
│         SETUPM MENU             │
├─────────────────────────────────┤
│ 🗔    LANGUAGE SETUP            │
│ ▣    DISPLAY SETUP             │
│ 🔊    AUDIO SETUP              │
│ 🗐    PARENTAL SETUP           │
│ 📂    OTHERS SETUP             │
│      VCR SETUP                 │
│ ▯Ⅱ   EXIT SETUP               │
│ LANGUAGE SETUP                  │
└─────────────────────────────────┘
```

2. Press the SHIFT ▶ button to select (ENTER)
   the "PARENTAL LOCK".
   Then the PARENTAL LOCK menu is displayed.

```
┌─────────────────────────────────┐
│         SETUPM MENU             │
├─────────────────────────────────┤
│ 🗔    LANGUAGE SETUP            │
│ ▣    DISPLAY SETUP             │
│ 🔊    AUDIO SETUP              │
│ 🗐    PARENTAL SETUP           │
│ 📂    OTHERS SETUP             │
│      VCR SETUP                 │
│ ▯Ⅱ   EXIT SETUP               │
│ GOTO DISPLAY LOCK MENU          │
└─────────────────────────────────┘
```

3. Press the SHIFT ▶ button to select (ENTER)
   the "PASSWORD".

```
┌─────────────────────────────────┐
│       PARENTAL LOCK MENU        │
├─────────────────────────────────┤
│ 🗐 PARENTAL    ▶ 1 KID SAFE     │
│ 🔑 PASSWORD       2 G           │
│                   3 PG          │
│                   4 PG 13       │
│                   5 PG-R        │
│                   6 R           │
│ ▲                 7 NC-17       │
│    MAIN MENU      8 ADULT       │
│ SET TO KIDS SAFE        ▼       │
└─────────────────────────────────┘
```

4. Press the SHIFT ▶ button to enter the
   selected menu.

```
┌─────────────────────────────────┐
│       PARENTAL LOCK MENU        │
├─────────────────────────────────┤
│ 🗐 PARENTAL                     │
│ 🔑 PASSWORD    ▶ [ CHANGE ]     │
│                                 │
│                                 │
│ ▲                               │
│    MAIN MENU                    │
│ CHANGE PASSWORD                 │
└─────────────────────────────────┘
```
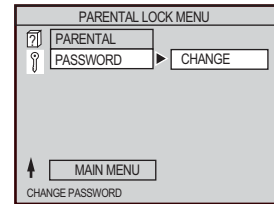
5. If selecting "CHANGE" by moving,
   a password display appears.
   Then entering a user's password,
   a user canresettle a user's password.

```
┌─────────────────────────────────┐
│     PASSWORD CHANGE PAGE        │
├─────────────────────────────────┤
│ 🔑 OLD PASSWORD :  [        ]   │
│ 🔑 NEW PASSWORD :  [        ]   │
│ 🔑 CONFIRM PWD :   [        ]   │
│                                 │
│                                 │
│ PLEASE ENTER OLD PASSWORD       │
└─────────────────────────────────┘
```
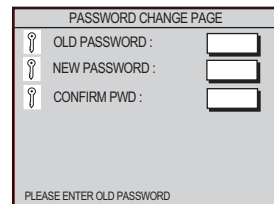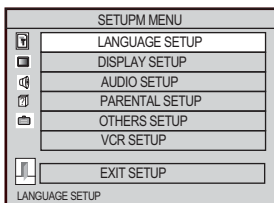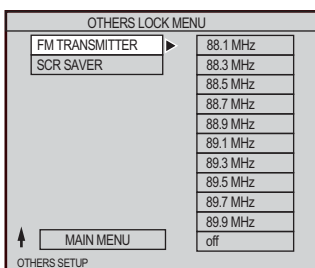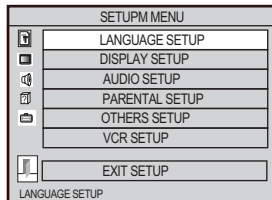
OTHERS SETUP MENU

● Setup the FM Transmitter

Option Function

1. Press the "SETUP" button on the remote control.
   The initial MENU is displayd.

```
          SETUPM MENU
 ☐    LANGUAGE SETUP
 ☐    DISPLAY SETUP
 ☐    AUDIO SETUP
 ☐    PARENTAL SETUP
 ☐    OTHERS SETUP
       VCR SETUP

 ☐    EXIT SETUP
LANGUAGE SETUP
```

2. Press the SHIFT   button to select (ENTER)
   the "OTHERS SETUP".
   Then the OTHERS SETUP menu is displayed.

```
        OTHERS LOCK MENU
 FM TRANSMITTER    ▶    88.1 MHz
 SCR SAVER              88.3 MHz
                        88.5 MHz
                        88.7 MHz
                        88.9 MHz
                        89.1 MHz
                        89.3 MHz
                        89.5 MHz
                        89.7 MHz
                        89.9 MHz
 ⬆   MAIN MENU          off
OTHERS SETUP
```
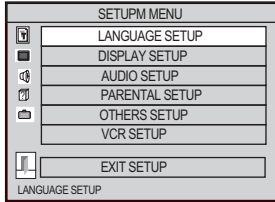
3. Press the SHIFT   button to enter the
   selected menu.

4. Press the SHIFT   (or SHIFT   ) button unit for the
   appropriate system is selected. and Press the
   ENTER button to activate the selected menu.
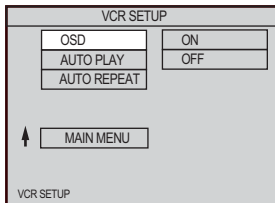   (88.1MHz   88.3MHz   88.5MHz   88.7MHz
    88.9MHz   89.1MHz   89.3MHz   89.5MHz
        89.7MHz   89.9MHz   off)

```
        OTHERS LOCK MENU
 FM TRANSMITTER    ▶    88.1 MHz
 SCR SAVER              88.3 MHz
                        88.5 MHz
                        88.7 MHz
                        88.9 MHz
                        89.1 MHz
                        89.3 MHz
                        89.5 MHz
                        89.7 MHz
                        89.9 MHz
 ⬆   MAIN MENU          off
OTHERS SETUP
```
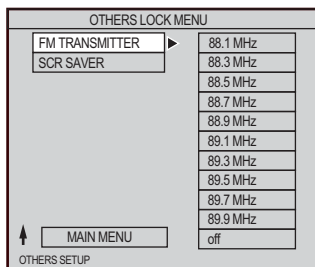
● Screen Saver

1. Press the "SETUP" button on the remote control.
   The initial MENU is displayd.

```
          SETUPM MENU
 ☐    LANGUAGE SETUP
 ☐    DISPLAY SETUP
 ☐    AUDIO SETUP
 ☐    PARENTAL SETUP
 ☐    OTHERS SETUP
       VCR SETUP

 ☐    EXIT SETUP
LANGUAGE SETUP
```

2. Press the SHIFT   button to select (ENTER)
   the "OTHERS SETUP".
   Then the OTHERS SETUP menu is displayed.

```
        OTHERS LOCK MENU
 FM TRANSMITTER    ▶    88.1 MHz
 SCR SAVER              88.3 MHz
                        88.5 MHz
                        88.7 MHz
                        88.9 MHz
                        89.1 MHz
                        89.3 MHz
                        89.5 MHz
                        89.7 MHz
                        89.9 MHz
 ⬆   MAIN MENU          off
OTHERS SETUP
```
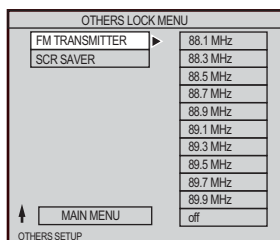
3. Press the SHIFT   button select (ENTER)
   the "SCR SAVER".
   Then the SCREEN SAVER menu is displayed.
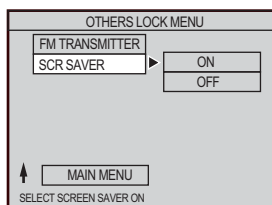
```
        OTHERS LOCK MENU
 FM TRANSMITTER
 SCR SAVER         ▶      ON
                         OFF


 ⬆   MAIN MENU
SELECT SCREEN SAVER ON
```

4. Press the SHIFT   button to enter the
   selected menu.

5. Press the SHIFT   (or SHIFT   ) button unit for the
   appropriate system is selected. and Press the
   ENTER button to activate the selected menu.
   ("ON" or "OFF")

```
        OTHERS LOCK MENU
 FM TRANSMITTER
 SCR SAVER         ▶      ON
                         OFF


 ⬆   MAIN MENU
SELECT SCREEN SAVER ON
```
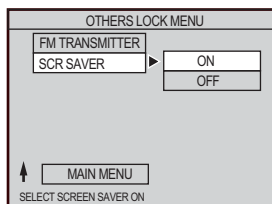
VCR SETUP MENU

● VCR OSD (On Screen Display)

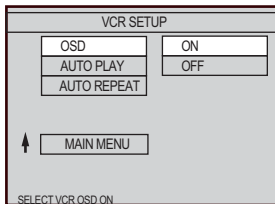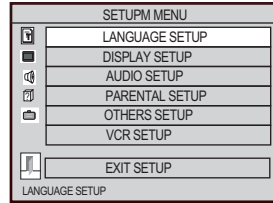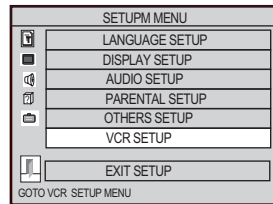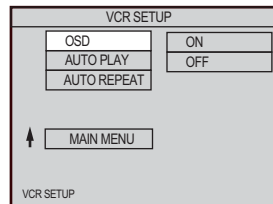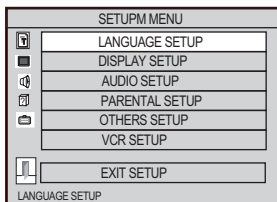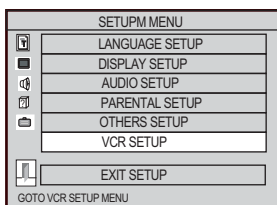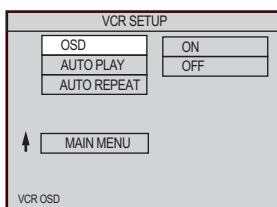1. Press the "SETUP" button on the remote control.
   The initial MENU is displayd.

```
                SETUPM MENU
  [ ]         LANGUAGE SETUP
  [ ]         DISPLAY SETUP
  [ ]         AUDIO SETUP
  [ ]         PARENTAL SETUP
  [ ]         OTHERS SETUP
              VCR SETUP

  [ ]         EXIT SETUP
  LANGUAGE SETUP
```

2. Press the SHIFT   button to select(ENTER) the
   "VCR SETUP",
   then the VCR SETUP menu is displayed.

```
              VCR SETUP
   OSD            ON
   AUTO PLAY      OFF
   AUTO REPEAT


   ↑    MAIN MENU

   VCR SETUP
```

3. Press the SHIFT   button to enter the
   selected menu.

4. Press select ENTER button unit for the
   appropriate system is selected.
   and Press the ENTER button to activate the
   selected menu.
   ("ON" or "OFF")

```
              VCR SETUP
   OSD            ON
   AUTO PLAY      OFF
   AUTO REPEAT


   ↑    MAIN MENU

   SELECT VCR OSD ON
```

● VCR Auto PLAY

1. Press the "SETUP" button on the remote control.
   The initial MENU is displayd.

```
                SETUPM MENU
  [ ]         LANGUAGE SETUP
  [ ]         DISPLAY SETUP
  [ ]         AUDIO SETUP
  [ ]         PARENTAL SETUP
  [ ]         OTHERS SETUP
              VCR SETUP

  [ ]         EXIT SETUP
  LANGUAGE SETUP
```

2. Press the SHIFT   button to select the
   "VCR SETUP",
   then the VCR SETUP menu is displayed.

```
                SETUPM MENU
  [ ]         LANGUAGE SETUP
  [ ]         DISPLAY SETUP
  [ ]         AUDIO SETUP
  [ ]         PARENTAL SETUP
  [ ]         OTHERS SETUP
              VCR SETUP

  [ ]         EXIT SETUP
  GOTO VCR  SETUP MENU
```

3. Press the SHIFT   button to select the
   "AUTO PLAY", then the AUTO PLAY menu is
   displayed.

```
              VCR SETUP
   OSD            ON
   AUTO PLAY      OFF
   AUTO REPEAT


   ↑    MAIN MENU

   VCR SETUP
```

4. Press the SHIFT   button to enter the
   selected menu.

5. Press select ENTER button unit for the
   appropriate system is selected.and Press the
   ENTER button to activate the
   selected menu.
   ("ON" or "OFF")

```
              VCR SETUP
   OSD
   AUTO PLAY      ON
   AUTO REPEAT    OFF


   ↑    MAIN MENU

   VCR OSD
```
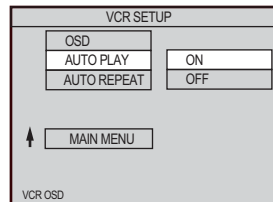
● VCR Auto Repeat

1. Press the "SETUP" button on the remote control.
   The initial MENU is displayd.

```
                SETUPM MENU
 🔲  |  LANGUAGE SETUP
 ◼   |  DISPLAY SETUP
 🔊  |  AUDIO SETUP
 🔲  |  PARENTAL SETUP
 🗀   |  OTHERS SETUP
     |  VCR SETUP

 🔲  |  EXIT SETUP
 LANGUAGE SETUP
```

2. Press the SHIFT   button to select(ENTER) the
   "VCR SETUP",
   then the VCR SETUP menu is displayed.

```
                SETUPM MENU
 🔲  |  LANGUAGE SETUP
 ◼   |  DISPLAY SETUP
 🔊  |  AUDIO SETUP
 🔲  |  PARENTAL SETUP
 🗀   |  OTHERS SETUP
     |  VCR SETUP

 🔲  |  EXIT SETUP
 GOTO VCR SETUP MENU
```

3. Press the SHIFT   button to select(ENTER) the
   "AUTO REPEAT",
   then the AUTO PLAY menu is displayed.

```
                 VCR SETUP
   |  OSD          |  ON
   |  AUTO PLAY    |  OFF
   |  AUTO REPEAT

 ↟  |  MAIN MENU

 VCR OSD
```

4. Press the SHIFT   button to enter the
   selected menu.

5. Press the SHIFT   (or SHIFT   ) button unit for the
   appropriate system is selected. and Press the
   ENTER button to activate the selected menu.
   ("ON" or "OFF")

```
                 VCR SETUP
   |  OSD
   |  AUTO PLAY
   |  AUTO REPEAT  |  ON
                   |  OFF

 ↟  |  MAIN MENU

 SELECT VCR AUTO REPEAT OFF
```
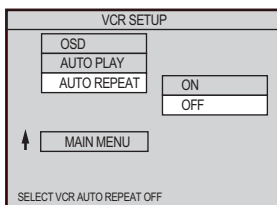
OPERATING TV TUNER (Option Function)

TV CHANNEL SET

NOTE : If RF-Sigmal is not input, searching channel will be displayed blue-back picture.

1. Press "A/V SEL." button on the remote control, until " TV" is selected.

(DVD   TV   CATV   AV1   AV2)
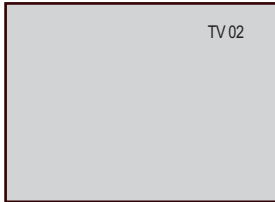
TV 02

2. Press A.SEARCH button on the remote control, then channels will be found and stored automatically.

While the "AUTO SEARCHING" is progressing, channels will be changed up to 69.

TV CHANNEL SET

CH **
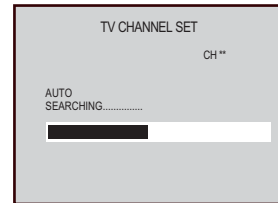
AUTO
SEARCHING...............

3. When searching and storing is completed, the TV mode will be displayed.

NOTE:
While searching and storing channels, no button will be operated.
When "AUTO REPAT" function is "OFF" and VCR is "STOP" mode, this function will be operated.

CATV CHANNEL SET

NOTE : If RF-Sigmal is not input, searching channel will be displayed blue-back picture.

1. Press "A/V SEL." button on the remote control, until " CATV" is selected.

(DVD   TV   CATV   AV1   AV2)

CATV 01

2. Press A.SEARCH button on the remote control, then channels will be found and stored automatically.

While the "AUTO SEARCHING" is progressing, channels will be changed up to 125.

CATV CHANNEL SET

CH **
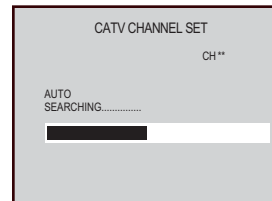
AUTO
SEARCHING...............

3. When searching and storing is completed, the CATV mode will be displayed.

NOTE:
While searching and storing channels, no button will be operated.
When "AUTO REPAT" function is "OFF" and VCR is "STOP" mode, this function will be operated.

Other's Operation

● Using a zoom function

A user can enlarge the current screen about 2,4 or 8 times.

Keep pressing [ZOOM] button till the preferred zoom appears.

Every time a user presses [ZOOM] button,
a zoom magnification changes 2 times (X2)   4 times (X4)   8 times (X8)
    OFF   2 times (X2) ... one by one.

A base point to be enlarged is center and the point can be changed with
the operation of [,   ,   ,   ] button.

ZOOM X2

Zoom button

When "TV ASPECT" item is set to "4:3 PS" in setup screen, or with certain discs,
2 times Zoom may not function properly.

Playable Disc : DVD,VCD

● Angle

If a disc includes multi angle information, a user can watch a screen in multi angles,
The function is limited to a DVD disc supporting multi angle information.

Keep pressing [ANGLE] button till the preferred angle appears.
Every time a user presses [ANGLE] button, an angle changes in a consecutive order.

TV 02
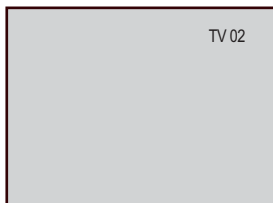
ANGLE button
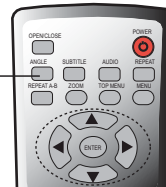
Playable Disc : DVD

To skip chapter in a DVD

1. Press POWER button to power on.
2. Press [OPEN/CLOSE] button to open the disc tray.
3. Insert the disc and press [OPEN/CLOSE] button to close the tray.
4. To playback it, press [PLAY/PAUSE] button.
5. To move to next chapter, press F.SKIP(▶▶I) button.
   The current chapter moves to the next chapter.
6. Press R.SKIP(I◀◀) button.
7. Also you can return to normal speed by pressing (▶/II) button.

SKIP BUTTON

Playable Disc : DVD

To play it fast

1. Press FF (▶▶) button to start fast-play in playing.

FF,REW Button

If Every time you press the button, play speed changes like the below orders
DVD : x 2 FF   x 4 FF   x 8 FF   x 16 FF   x 32 FF   x 64 FF   PLAY   x 2 FF ....
VCD : x 2 FF   x 3 FF   x 4 FF   x 5 FF   PLAY   x 2 FF....
MP3 : x 2 FF   x 4 FF   x 6FF   x 8 FF   PLAY   x 2 FF....
Also you can return to normal speed by pressing play/pause (▶/II) button.

2. Press REW (◀◀) button to start reverse fast-play in playing.
If Every time you press the button, play speed changes like the below orders
DVD : x 2 FR   x 4 FR   x 8 FR   x 16 FR   x 32 FR   x 64 FR   PLAY   x 2 FR ....
DVR : x 2 FR   x 3 FR   x 4 FR   x 5 FR   PLAY   x 2 FR ....
MP3 : x 2 FR   x 4 FR   x 6 FR   x 8 FR   PLAY   x 2 FR....
Also you can return to normal speed by pressing (▶/II) button.

Playable Disc : DVD,VCD

To play it slow

1. Press the SLOW button to play it slowly in PLAYBACK.

Slow Button

Every time you press the button, play speed changes like the below orders
VCD : x 1 SF   x 2 SF   x 3 SF   STEP BWD   x 1 SF.....
DVD : x 2 SF   x 4 SF   x 8 SF   x 2 SR   x 4 SR   x 8   PLAY   x 2 SF.....

Also you can return to normal speed by pressing PLAY/PAUSE (▶/II) button.
*For the case of SVCD or VCD, Slow playback is available.

Playable Disc : DVD,DVD

● Repeating a defined period

You may repeat a desired chapter or track.

1. Keep pressing REPEAT button till the preferred system appears.

DVD : Chapter Repeat on   Title Repeat on   Repeat off   Chapter Repeat on

VCD : REP-ONE   REP-ALL   REP OFF   REP-ONE

MP3(CD) : REP-ONE   Folder Rep   Folder   REP-ONE
Also you can return to normal speed by pressing PLAY/PAUSE (▶/ll) button.
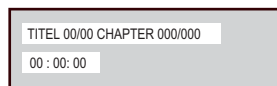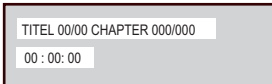
Chapter Repet on
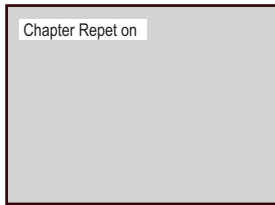
REPEAT button

A certain disc may not be repeated.
Playable Disc : VCD,DVD,MP3(CD)

● confirming the current disc mode

While in playing, Keep pressing "DISPLAY" button till
the preferred system appears.

Display button

Playable Disc : DVD

TITEL 00/00 CHAPTER 000/000
00 : 00: 00

TITEL REMAIN
00 : 00: 00

CHAPTER ELAPSED
00 : 00: 00

CHAPTER REMAIN
00 : 00: 00

TITEL 00/00 CHAPTER 000/000
00 : 00: 00

Playable Disc : VCD

SINGLE ELAPSEO
00 : 00: 00

SINGLE RENAIN
00 : 00: 00

TOTAL ELAPSED
00 : 00: 00

TOTAL REMAIN
00 : 00: 00

OFF
00 : 00: 00

SINGLE ELAPSEO
00 : 00: 00
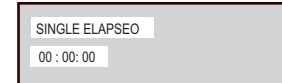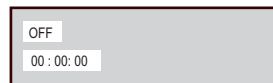
● To display menus in a disc

If a disc includes menus, a user may use them.

1. Press "MENU" button.

   It shows menus in the disc. Also they are different according to discs.

   Move a cursor to a relative item with "MOVE IN OSD" buttons of   ,   ,   ,
   button and select one with "ENTER" button or "PLAY" button.

MOVE IN OSD button   ENTER button
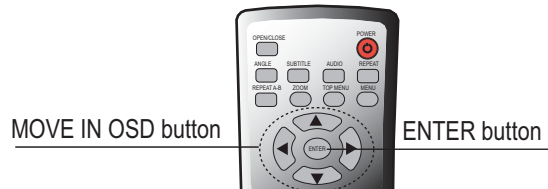
Playable Disc : DVD

2. Press "PBC" button.

   Every time pressing "PBC" button, PBC function turns ON and OFF over and over.
   Menu screen only appears when selecting "PBC ON".

   Select a number of menu screen and press "ENTER" button.
   If you watch a movie without menu screen, select "PBC OFF" mode by pressing "PBC" button.

number button   PBC button
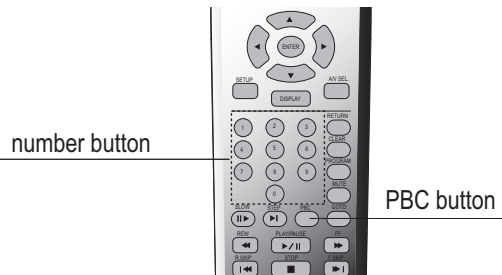
Playable Disc : VCD 2.0

CD and VCD1.1 do not support the function.

● Repeating a defined period (DVD)

You may repeat a desired chapter or track.

1 Select A-B Repeat Function
In Play mode, press the REPEAT button, then press left/right to select A-B Repeat.
o "A-" will highlight when A-B Repeat is selected.

NOTE: If you are playing a CD, the menu will display "Track" in place of "Chapter"

2 Mark the Starting Point
Press the ENTER button at the beginning of the segment you want to repeat (Point A).
o "B" will highlight after Point A is selected.

NOTE: The minimum AB Repeat time is 5 seconds.

3 Mark the Ending Point
Press the ENTER button again at the end of the segment you want to repeat (Point B).
o The segment will begin repeating in a continuous loop.

4 Cancel A-B Repeat
Press the REPEAT button to open the Repeat Menu,
press left/right to highlight "Off," then press the ENTER button.

| A TO B SET A | → | A TO B SET B | → | A TO B CANCELLED |
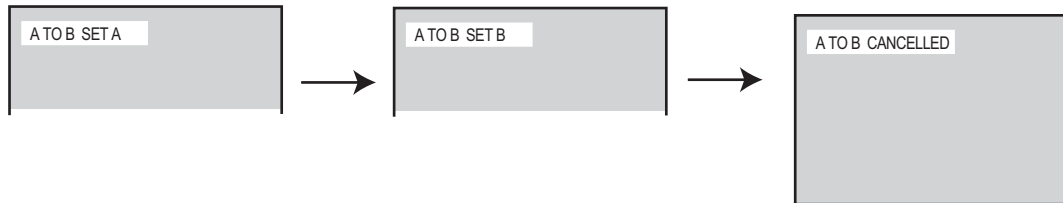
About VCR

VIDEO HEAD CLEANING

The video heads enable the VCR to read video information pictures from the tape during playback.
In the unlikely event that the heads become clogged with dirt video playback will be impossible.
This can easily be determined during playback of a known good tape, there is good sound, but the picture is extremely snowy.
If this si the case, have the video cassette recorder checked by qualified service personnel.

NOTES
During normal operation of the VCR, the video and audio heads can accumulate dirt over a period of time, especially when using an old or poor quality tape. When the heads are dirty, the picture can get snowy and the tracking control will have little or no effect.
If this condition occurs, head cleaning cartridges may take care of the problem and restore normal picture.
We recommend that head cleaning cartridges be used sparingly since they are very abrasive and can damage the video heads during prolonged use.
If the problem is not resolved with the head cleaning cartridge then the unit needs to be checked by a qualified service personnel.

ERASURE PROTECTION

Video cassettes are equipped with a safety tab to prevent accidental erasure.
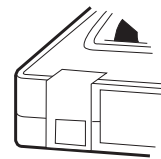When the tab is removed, recording can not be performed.

TO PREVENT ACCIDENTAL ERASURE
-After recording, break off the safety tab
 with a screwdriver if you don't want to
 record over the tape.
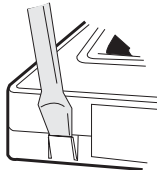
TO RECORD AGAIN
- Cover the hold with cellophane tape.

What is dew condensation symptom?

If a VCR is moved from a cool place to a warm and damp place or a place facing a direct cool wind from air-conditioner...and others, temperature varies sharply, which makes dew on head drums of VCR.

If dew condensation occurs,

1 First, turn it on for one or two hours before using it.
2 Do not use it because it may develop troubles of a VCR or videotape.
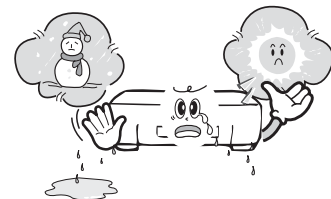
About DVD

Playable Disc

DVD,Video CD (Version 1.1,2.0),S-VCD and Audio CD

Disc type	Playable	Restriction
DVD	Possible	Region number 1 or Region number All
Video CD	Possible	Version 1.0/1.1/2.0, SVCD/CVD
CD	Possible	PCM or dts
CD-R	Possible	Video-CD/CD/CD-ROM (MP3 File)
CD-RW	Possible	Video-CD/CD/CD-ROM (MP3 File)
DVD-R	Possible	DVD Video
S-VCD	Possible	SUPER Video CD

REGION MANAGEMENT INFORMATION

(Region 1)

(Region ALL)

This unit is designed and manufactured to respond to
the Region Management information that is recorded on a DVD disc.
The region number of this player is "1".
If the region number described on the DVD discs
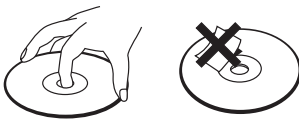does not correspond to the Region number of this player, the player will not play this disc.
This player will play DVD discs made for "ALL" regions.
Therefore, this player will play DVD discs marked with labels
containing the region number "1" or "ALL".

Handling Disc

- To keep a disc clean condition, please do not touch a side containing play information.
- Do not attach a bit of paper or sticky tape on it.
- Do not expose a disc to a direct sunlight or electric heating systems.
- After using it, please keep a disc in a case.

Cleaning Disc

- Before using it, please rub it from center toward outside with clean clothes.
- Do not use any type of solvent such as thinner, benzol (benzene), commercial
  cleaning goods or antistatic sprays.

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● Terms related with DVD

DVD

A DVD (abbreviation of Digital Versatile Disc or Digital Video Disc) can include
135 minutes of video information. And for audio, it can hold up to 8 kinds of languages
and 32 kinds of subtitle languages.
By using MPEG-2 video compression and digital 3D surround sound,
DVD realizes highdefined screen and quality sound like a movie theater.

CDDA
A CDDA (abbreviation of Compact disc digital audio) is a music disc that is currently used.

MP3
Audio compression format that enables audio files to be stored and transferred on a computer
with a relatively small file size. It enables you to enjoy CD quality music. (Short for MPEG-1 Layer 3)

PBC
This is recorded on a Video CD 2.0, Video CD 3.0, SVCD and CVD.
The scenes or information to be viewed (or listened to) can be selected interactively with
the TV monitor by looking at the menu
shown on the TV monitor. It stands for PlayBack Control.

CHAPTER
It means the information recorded in a DVD. A title in a DVD is divided into many tracks,
of which a track is called as a chapter.
A certain scene of a screen can be quickly searched with the chapter number.

TITLE
It means the information recorded in a DVD. A DVD can be divided into may titles.
TRACK It means the information recorded in a video CD and audio CD.
A disc consists of many a track, for which a user can search a certain position.

Angle
Some DVD discs contain the various scenes that have been simultaneously shot from a number of
different angles.

S-VIDEO
The S-VIDEO output separates the color (C) and luminance (Y) signals before transmitting them to the
TV set in order to achieve a sharper picture. So this must be selected from the menu to enable the SVIDEO
output to function.

Symptom	Checks
The recorder does not play.	- a If a DVD is from overseas, it may not be played. Please check a DVD's region code whether it has the relative region code 1 or All. - a Please check whether a DVD is inserted in a right direction. - a If it is a CD-ROM for PC or DVD-ROM, it does not work.
No sound comes through.	- a Play mode may be "SLOW" or "PAUSE"(In abnormal speed play, no sound comes through) - a Did you connect the parts in right way? - a Please check the operative condition of TV or amplifier. - a From SETUP, please check "AUDIO" items.
A disc is playing but screen does not appear or poor screen appears.	- a Did you turn on your TV sets? - a Did you connect the parts in right way? - a The play may be in "PAUSE". - a A disc may have some contaminants or be damaged. - a A disc may be bad one.
Sound is irregular	- a Please check the connection with Dolby Digital amplifier. - a Please check the plugs are connected with one another tightly. - a Some contaminants may be remained in connection terminal.
REMOTE does not work.	- a Please check the degree of remote control, distance or any interruption. - a Battery may be weak or exhausted. - a When you operate DVD, use it by pressing [DVD] button.
"AUDIO" or "SUBTITLE" button does not work.	- a If a DVD does not include language information, it does not support the function.
"ANGLE" button does not work while a DVD is playing.	- ANGLE" is supported only in a DVD contains multi angle scenes. Also a user can confirm the support with the "ANGLE" mark on screen.
"MENU" does not appear while a DVD is playing.	- a Please check the degree of remote control, distance or any interruption. - a Please check a battery in remote control whether it is exhausted or not. - a A DVD may not contain menu information.
Screen shakes or appears only in black and white. (or Subtitle shakes)	- a The recorder may not coincide with your TV system. Please press "SYSTEM" to match to NTSC system. - a A disc may have some contaminants or be damaged. - a If you playback a DVD disc of PAL system whose region code is "ALL", the playback screen may shake.

Before doubting about troubles (VCR)

Symptom	Checks
"Power On" does not work.	- a Please check whether a power plug is inserted in an electric outlet. - The Polarity of power cord is not correct.
It does not work even in "Power On".	- Please check whether a videotape is inserted in. - a Try to insert a plug again. - Check circuit fuse at source of power. (see vehicle/converter manual.)

A videotape is not inputted in.	- a Please check whether a power plug is inserted in an electric outlet.
	- a Please check whether a videotape is in.
	- a Please check whether a videotape is inserted in a right direction
	  (a side of transparent window should be on the upside)
	- a Have you inputted a videotape again just after the tape was
	  ejected? Please try it again after fully ejecting it.
	- a When a videotape forces to be ejected, the tape may not be
	  inputted. In the case, please pull out an outlet, and then push the
	  tape smoothly.

On inputting a videotape, the tape is re-ejected.	- That's why a safe mode to protect a videotape is operated automatically. Please pull out the tape and input it again.

A videotape is not ejected.	- In case the product is used for a long time, a videotape may not be
	  ejected for a film inside may be stretched. In the case, please pull
	  out a power plug for about 10mins and then press "EJECT" button.

A channel on video and a play screen does not appear.	- a Please check your antenna's connection.
	- a TV channel should be fixed on video channel (3 or 4).
	- a Please check your antenna's signal whether it may be weak.
	  In case of its weakness, please use a frequency amplifier connected
	  with the device.

Noise (screen noise) appears on screen.	- a While in no use of VCR, was it turned on? - a While in recording a program, do you watch another channel?
While in playing, noise appears.	- Please press "TRACKING" for better screen. Videotape may be poor. Try to change it to another one.
Sound and screen are irregular. Sound comes out but screen does not appear. Screen is irregular and stripes appears. "Screen Error" message is displayed in a screen.	- a Please use a head-cleaner to clean VCR heads. VCR heads may be contaminated.

Symptom	Checks
While recording and playing, the top of screen extremely waves.	- a Since VCR Play signals are not stable like a TV signals, screen
A screen is not clear.	- a In case videotape is the one recorded by other products or old one, stripe may appear on the screen. - a Try to adjust the screen by [TRACKING+/-] button - a Try to use a head-cleaner.
A screen at pause is trembling or slow screen is not clear.	- Try to use a head-cleaner. - a Try to adjust the screen
Recording a TV program is impossible.	- a For recording, you should use videotape with a tab. - a Please check whether a channel is fixed on video. If not, you have to turn it into "TV" by pressing "OUTPUT" button. - a Are RF cables inputted antenna connection terminal correctly? - a Does a CH number selected in display section appear? - a Please check a tab on a tape whether it is broken or not. (If it was broken, please scotch-tape it) - a Check whether a tape attached with a recording tap is inserted. - a Check whether the screen is displayed in VCR Only Channel. Press [OUTPUT] button in this remote controller to adjust in "General Broadcast" condition. - a Is the rounded line (RF cable) connected in "ANT.IN" terminal? - a Is the selected channel number shown in Display? - a Is a tab of cassette tape broken? (Please cover a tab hole with cellophane adhesive tape (Scotch tape).)
In spite of pressing "CHANNEL", a channel can not be set.	- a You may not memorize channels. - a Please check your channel setting or press a number button.
While duplicating, screen is not clean and distorted.	- a Some tapes or discs distributed in the market for lending is set to prevent copy in manufacturing. These tapes cannot be duplicated in a good condition.
remote control does not work.	- a Battery may be weak or exhausted. - a A receiver of remote control may be different with a sender.
Buttons on remote control do not work.	- a In case a videotape is positioned in the beginning, "VISS REW" and "REW" do not work. - a In case a videotape is positioned in the end, "FF", "VISS FF", "PLAY" and "REC" do not work. - a Please check whether another button is pressed.
Cable broadcasting can not be selected.	- a Please select "CABLE" not "NETWORK" from the "CHANNEL SETTING".

Specifications

● VCR PART

Power Supply	DC 12V
Consumed electricity	24W
Weight	approx 3.9 Kg
Dimension (WxHxD)	265mm x130mm x 275mm
Operative temperature	5°C~35°C (Humidity : 80% maximum)
Installation condition	Horizontal
Received channels	VHF: 2-13 CH / UHF: 14-69 CH / Cable: 1-125
Signal type	NTSC-M
Antenna Input/output	U/V-mixed: 75½unbalanced
VIDEO input	1.0 Vp-p 47k ohm unbalanced, RCA JACK
AUDIO input	Line Input -8.8dBm, 47k ohm minimum
VHF output	3 or 4 CH
VIDEO output	1.0 Vp-p 47k ohm unbalanced, RCA JACK
TAPE WIDTH	12.65mm (1/2INCH) VHS
Record System of Luminance Signal	Frequency Modulation Recording
Record System of Color Signal	Down converted sub carrier phase shift system
Tape Speed	SP : 33.35 mm/s EP : 11.12 mm/s (FOR NTSC)
REC Time (T-120)	SP : 2Hours EP : 6 Hours (FOR NTSC WITH T-120)
FF/REW Time	ABOUT 4 Min (T-120)
Luminance S/N	SP : 43 dB Min EP : 41 dB Min

Audio Signal Output	1.Mono
	  EE/SN-1 : -5.8dBm± 2dBm(1Khz) 1Kohm Maximum
	  SN-2 : SN-1+2,-5dBm(7Khz) 1Kohm Maximum
	2. Hi-Fi
	  EE/REC => PB;SP -5.8dBm± 2dBm(400Hz) 1Kohm Maximum
	  SN-7A; -5.8dBm± 2dBm(1Khz) 1Kohm Maximum

Audio S/N (A.W)	MONO ; SP 42 dB Minimum SLP 40dB mlNIMUM Hi-Fi ; SP/SLP 68dB Minimum
A.Frequency Range	Hi-Fi ; SP/SLP 0+1,-3dB [20Hz-20KHz]

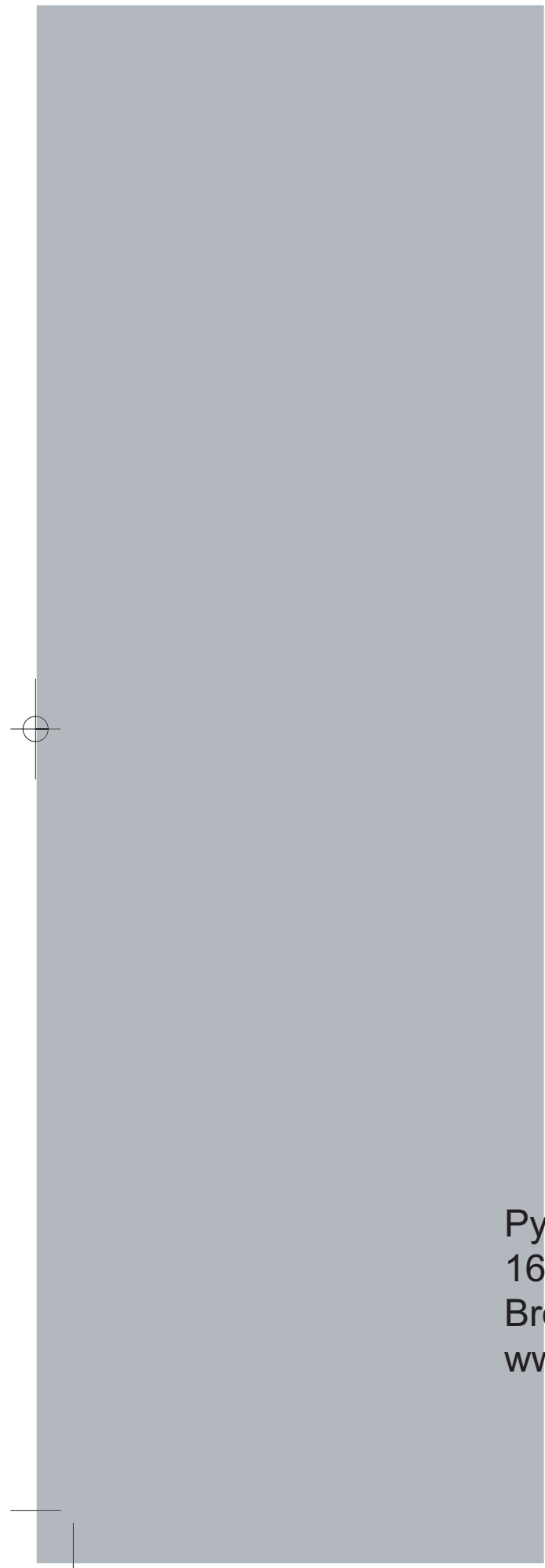|	
Distortion	Hi-Fi; sp/slp 0.7% Maximum Mono ; SP 4.0% Maximum/SLP 5.0% Maximum
Wow Flutter	Hi-Fi ; SP/SLP 0.012% Maximum Mono ; SP0.0300% Maximum/SLP 0.400% Maximum
Hi-Fi Channel Balance	SP/SLP ± 3.0 Miximum
Hi-Fi CH Seperation (A.Weighted)	sp/slp : 45dB Min

● DVD PART

Pick-up System	Non-contact Optical Pick-up System AT Attachment Packet Interface (ATAPI)

Playable disc	* DVD/VCD/CD/CD-R/CD-RW/MP3/ SVCD/DVD-R
	* DVD : DVD-5, DVD-9, DVD-10, DVD-18, DVD-R
	* CD : CD-DA, CD-R, CD-R/W, Video CD, DVCD, SVCD,
	 Enhanced-CD, Mixed-CD, CD-I
	* Disc diameter : 12cm, 8cm
	* Disc Capacity
	DVD : 4.7GB(DVD-5, single layer)
	 8.5GB(DVD-9, dual layer)
	 9.4GB(DVD-10, double side & single layer)
	 17.1GB(DVD-18, double side & dual layer)
	CD : 550MB(Mode 1,12cm)
	 680MB(Mode 2,12cm)
	 180MB(8cm)
	* Disc Thickness : 1.2mm (CD & DVD)
	* Disc Center Hole : 15mm diameter
	* Track pitch : 1.6§- (CD), 0.74§- (DVD)
	* Scanning velocity : 1.2~ 1.4 m/sec (CD)
	     3.49 m/sec (DVD Single Layer)
	     3.84 m/sec (DVD Dual Layer)
	* Block Size
	DVD : 2,048 bytes
	CD : Mode 0 2,352 bytes
	 Mode 1 2,048 bytes
	 Mode 2 2,336/2,048/2,328 bytes

Audio Signal Output	* 2.0 Vrms
Audio S/N(A. W)	* 100dB(RCA JACK) Digital audio output
Audio Frequency range	* 20 Hz (CH 3) : - 0.3 ± 1 dB 1 KHz(CH 2) REFERENCE : 0 dB 20 KHz(CH 6) : - 1.5 (± 1 dB)

Analogue Audio output (2CH. L/R)	* DVD : 48/96KHz sampling * VCD : 44.1KHz sampling * CD : 44.1KHz sampling
Digital Audio output (COAXIAL)	* DVD : 48KHz sampling * VCD : 44.1KHz sampling * CD : 44.1KHz sampling
Vibration	* Data read Operation : 0.25G(0'P), at 10 to 500Hz sweep, sine wave, 1 Octave/min(except resonance point) * Non-operating : 2.0G rms, at 10 to 500Hz random (30min/Axis for X, Y, Z) After test, there shall be no hard errors.
Shock	* Data read Operation : 6G, 11msec half sine wave (20 shocks for X,Y,Z with 3 seconds between shocks) * Non-operating : 60G,11msec half sine wave After test, there shall be no hard errors
Electrostatic Discharge Requirements	* The drive should withstand 8kV test voltage of Electrostatic Discharge and meet the acceptance criteria as specified in IEC 801-2.
Loader Reliability	* MTBF : 100,000 POH at 20% duty cycle in room temperature. * MTTR : max. 30 min * Tray : min. 30,000 cycle (with limit switch) * Feeding : min. 1 million full stroke seeks (without limit switch) * Noise : max. 40 dB (at 1 m)
Data Transfer Rate(Sustained)	* DVD : 2.76 MB/sec(2X Speed in CLV mode) * CD : max. 600 KB/sec(4X Speed in CLV mode)
Access Time	* DVD : Less than 300 ms (Average), random Less than 360 ms (Average), full stroke * CD : Less than 340 ms (Average), random Less than 400 ms (Average), full stroke
Data Buffer	256KB (DVD/CD)
Error Rate	* max. 10E-12 (CD) , max. 10E-17 (DVD)
Disc Loading	* Type : motorized tray * Time : 1.5 sec(typical)

Operating time	* Spin-up time : Less than 13 sec (Typical) * Stop time : Less than 2 sec(Typical)
Laser parameters	* DVD Semiconductor Laser / Wave length : 650nm / Emission power : 0.28 mV *CD Semiconductor Laser / Wave length : 780nm Emission power : 0.30 mV
FM Transmitter	*FM 88.1MHz ~89.9 MHz(11 Step, 0.2MHz)
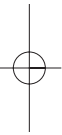
Pyle Audio Inc.
1600 63rd Street
Brooklyn, NY 11204
www.pyleaudio.com